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**UTILITY PATENT APPLICATION  
TRANSMITTAL UNDER 37 CFR 1.53(b)**
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**EL485200227US**
**Date:** 9-25-00

**CAMERA HAVING A REMOVABLE DISPLAY  
PROVIDED ON AN IMAGE BEARING MEDIUM**
**First Named Inventor (or Application Identifier):**

John R. Fredlund, et al

Enclosed are:

1. ☒ Specification
2. ☐ 10 Sheet(s) of drawing(s)
3. ☒ Information Disclosure Statement Under 37 CFR 1.97.
4. Combined Declaration for Patent Application and Power of Attorney:
  - 4a. ☒ New
  - 4b. ☐ Copy from a prior application (37 CFR 1.63(d) (for continuation/divisional with Box 11 completed)
5. ☐ Incorporation by Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☒ Assignment of the invention to **Eastman Kodak Company**
7. ☐ Certified copy of a priority
8. ☐ Associate Power of Attorney
9. ☐ Deletion of Inventor(s). Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
10. ☐ If a 111A application prior to examination of the above-identified application, amend the specification at Page 1, after the title, by inserting the following:  
--CROSS REFERENCE TO RELATED APPLICATION  
Reference is made to and priority claimed from U.S. Provisional Application Serial No. , filed , entitled .
- If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:
  11. ☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No. :
  12. ☒ Please address all written communications to Thomas H. Close, Patent Legal Staff, Eastman Kodak Company, 343 State Street, Rochester, NY 14650-2201.  
Please Direct all telephone calls to Raymond L. Owens at (716) 477-4653.

The filing fee has been calculated as shown below:

FOR:	NO. FILED	NO. EXTRA	RATE	FEE
BASIC FEE				\$ 690
TOTAL CLAIMS	23 - 20 =	3	x 18 =	\$ 54
INDEPENDENT CLAIMS	3 - 3 =	0	x 78 =	\$ 0
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENTED			+ 260	\$ 0
			<b>TOTAL</b>	<b>\$ 744</b>

☒ Please charge my Eastman Kodak Company Deposit Account No. **05-0225** in the amount of \$ 744 .

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☒ The Commissioner is hereby authorized to charge any additional filing fees required under 37 CFR 1.16 or credit any overpayment to Eastman Kodak Company Deposit Account No. **05-0225**.

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Raymond L. Owens/das  
Telephone: (716) 477-4653  
Facsimile: (716) 477-4646

*Raymond L. Owens*  
Attorney for Applicants  
Registration No. 22,363

09/25/00 U.S. PTO

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**ORIGINAL PATENT APPLICATION BASED ON:**

**Docket:** 81687RLO  
**Inventor(s):** John R. Fredlund  
Raymond E. Wess  
**Attorney:** Raymond L. Owens

**CAMERA UTILIZING A MEMORY DISPLAY**  
**IN AN IMAGE MEMORY CARD**

**EXPRESS MAIL LABEL NO.: EL485200227US**

**Date of Mailing:** 9-25-00

# CAMERA HAVING A REMOVABLE DISPLAY PROVIDED ON AN IMAGE BEARING MEDIUM

### CROSS REFERENCE TO RELATED APPLICATIONS

Reference is made to commonly-assigned U.S. Patent Application

- 5     Serial No. 09/045,016 filed March 20, 1998, entitled “Display Having Viewable  
and Conductive Images” by Stanley W. Stephenson, and U.S. Patent Application  
Serial No. 09/597,134 filed June 20, 2000, entitled “Driving a Memory Display in  
an Image Memory Card” by John R. Fredlund et al, the disclosure of which is  
incorporated herein by reference.

**10 FIELD OF THE INVENTION**

The present invention relates to cameras having removable image bearing media.

## BACKGROUND OF THE INVENTION

Current silver halide film cameras have displays for indicating settings and status conditions, such as frame number, of the camera. Often, the display uses twisted nematic liquid crystals that that requires continuous electrical drive to display information. Cameras with this type of display are usually turned on only for short periods of time to preserve battery life. When the cameras are turned off, the liquid crystal display goes blank. An operator must turn on the camera to determine the status of the camera. These cameras typically incorporate a high voltage supply to drive an electronic flash built into the camera, and utilize cartridges that contain the film in a light tight environment.

Many digital cameras use liquid crystal displays to display a captured image. Displays in these cameras are also nematic liquid crystals displays that can drain an electronic camera power supply in a short period of time.

Many digital cameras also use removable memory cards to store images. There is no way to tell how much capacity remains or what images reside on these memory cards without turning the camera on.

## SUMMARY OF THE INVENTION

Accordingly, it is an object of the present invention to provide a convenient way for a viewer to view a display on an image bearing medium whether in the camera or removed from the camera for viewing.

5                   It is another object of the present invention to provide a convenient way to view the display on image bearing medium that presents an indication of camera status to the user.

                  It is another object of the present invention to provide a camera with a display on the image bearing medium that presents the indication of camera  
10                   status to the user.

                  It is another object of the present invention to provide a means for changing the display on the image bearing medium prior to removal from the camera such that the display reflects the status of the image bearing media and not necessarily the camera.

15                   These objects are achieved by a camera having a removable image bearing medium for camera captured images that includes film or a digital memory comprising:

                  (a)     a display disposed relative to the removable image bearing medium so that the display is removable from the camera with the removable  
20                   image bearing medium, such display displaying images for information related to captured images;

                  (b)     means for actuating the display to provide images of one or more captured images or information related to such one or more captured images; and

25                   (c)     the display being positioned for viewing by a user.

                  It is a feature of the present invention that a display is provided on a removable image bearing medium and can be viewed either in the camera or after removal from the camera.

                  Another feature of the invention that the display itself can be made  
30                   detachable from the image bearing medium and reused.

### BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a top sectional view of a silver halide camera with a film cartridge with a memory display;

FIG. 2 is a top sectional view of an electronic capture camera with  
5 a removable memory card with a memory display;

FIG. 3 is a side sectional view of the memory display of FIG. 1;

FIG. 4 is a top view of the memory display of FIG. 3;

FIG. 5 shows an electrical circuit which drives the display of FIG.3  
by selectively coupling the flash unit high voltage supply to the display;

FIG. 6A is a partial top view of the memory display of the  
10 electronic capture camera of FIG 2;

FIG. 6B is a magnified view of the memory display of FIG. 6A;

FIG. 7 is an electrical schematic circuit which drives the memory  
display of FIG. 6A and 6B;

FIG. 8A is a waveform to drives a memory material to a reflecting,  
15 or bright condition;

FIG. 8B is a waveform to drives a memory material to a  
transmitting, or dark condition;

FIG. 8C is a waveform to drive a memory material to an  
20 intermediate condition between transmission and reflection;

FIG. 9 is a view of a memory card with a memory display;

FIG. 10 is a view of a film camera with a visible memory display  
on the image bearing medium;

FIG. 11 is a view of an electronic camera with a visible memory  
25 display on the image bearing medium; and

FIG. 12 depicts a memory card which incorporates a detachable  
display.

### DETAILED DESCRIPTION OF THE INVENTION

A top sectional view of a silver halide film camera 10 is shown in  
30 FIG. 1. A film cassette 20 with a memory display 37 in camera 10 holds a strip of  
film 22 that captures images from optic 26. Film 22 is sequentially taken up onto

take-up spool 24 to capture a set of images. After image exposure is complete, film 22 is returned to film cassette 20. Camera controller 30 receives commands from an operator and controls the sequential motion of film 22 and optic 26.

Camera controller 30 can provide supplemental illumination to a scene by

- 5 discharging a high voltage pulse through flash tube 42 in a flash unit. Flash tube 42 requires a flash capacitor 40 to store energy for flash tube 42. Flash capacitor 40 typically stores energy in a capacitor having over 50 micro-farads capacitance at over 100 volts.

The status of camera 10 is shown on a display 35 in camera 10.

- 10 Typically, display 35 shows the number of the current frame of film, the operational mode of flash tube 42, and operating parameters of optic 26. The status of the camera 10 can also be shown on the memory display 37. In more complex cameras, display 35 is a conventional nematic liquid crystal display. Nematic liquid crystal fluids act in conjunction with polarizing filters to act as a
- 15 shutter to reflect or transmit light. Transmitted light is selectively reflected from a surface behind the display to provide light indicia. The reflected light provides a white indicia. When light is blocked by the polarizing filters, the imager area is dark. Nematic liquid crystals must have a continuous electrical field across the display to display information.

- 20 FIG. 2 is a top sectional view of an electronic camera 12. Many of the components operate as in conventional camera 10. Film 22 is replaced by electronic sensor 50. Electronic sensor 50 captures a scene and camera controller 30 stores a captured image in removable memory card 52 with memory display 54. The status of the electronic camera 12 can be shown on the memory display 37.

- 25 Display 35 in electronic camera 12 displays the status of electronic camera 12, and in certain cases displays images from removable memory card 52. The flash tube 42 is often provided in electronic camera 12 to supply additional light to a scene at the time of image capture. Flash tube 42 requires the flash capacitor 40 to store energy for flash tube 42. Flash capacitor 40 typically stores energy in a capacitor
- 30 having over 50 micro-farads capacitance at over 100 volts.

FIG. 3 is a diagram of display 35 in accordance with the present invention. Memory material 60 is disposed between a transparent top conductor 62 and a bottom conductor 64. Bottom conductor 64 can be a transparent electrical conductor such as Indium-Tin-Oxide or a light absorbing conductor formed by an oxide of a metal such as platinum or nickel. Memory material 60 can be a chiral doped nematic liquid crystal such as those disclosed in U.S. Patent 5,695,682. Applied fields of various intensity and duration change the condition of chiral doped nematic materials from a reflective to a transmissive condition. In this way, the display 35 is actuated to convey useful information.

10           The chiral doped nematic liquid crystal materials have the advantage of maintaining a given condition indefinitely after the field is removed. Ambient light striking memory material can be reflected light 70, providing a "light" image or can become absorbed light 72 which provides a "dark" image. The light modulation is effective in two conditions, which will be described in more detail below. Cholesteric liquid crystal materials can be Merck BL112, BL118 or BL126 which are available from EM Industries of Hawthorne, NY. In one experiment, two glass plates were coated with transparent Indium-Tin-Oxide (ITO) to form transparent top conductor 62 and bottom conductor 64. A laser beam was used to pattern the ITO coatings and 4 micron spacer beads were applied to one of the plates. The two plates were bonded together, with the spacer beads providing a 4 micron gap between the two plates. Black paint was applied to the back of the display over bottom conductor 64 to absorb light passing through memory material 60. The gap between the plates was filled with E. M. Industries (Hawthorne, New York) chiral nematic fluid BL126 to act as memory material 60. A 3 millisecond pulse at 100 volts across areas on transparent top conductor 62 and bottom conductor 64 would convert the BL126 memory material 60 to a reflective "bright" areas. A 3 millisecond pulse at 40 volts would clear memory material 60 so that incident light was absorbed by the black paint and create "dark" areas. Such a display can be used to display camera status on memory display 37 for conventional camera 10 or display 54 for electronic camera 12. The memory display 37 includes the memory material 60 which is selected to

be effective in a first condition for changing the state of the memory material 60 to display an image and effective in a second condition for preventing the display of the image. The memory material 60 is selected so that after displaying the image the memory material 60 continues to display the image after the removal of the applied high voltage. As will be seen shortly when a voltage less than the high voltage is applied to the memory material 60, the memory material 60 is caused to be in its second condition.

FIG. 4 shows such display 35 having memory material 60. A reflecting segment 80 has had a 100 volt pulse applied to memory material 60. A transparent segment 82 has received a 40 volt pulse. Transparent segment 82 passes incident light to a light absorbing surface to create a dark. The individual segments retain a given condition indefinitely after being pulsed. A camera with an electronic flash charging unit provides the source of high voltage. As will be discussed in FIG. 5 a camera 10 or 12 with an electronic flash charging unit provides the source of high voltage that can be shut off and the image-bearing medium will continue to have an visible display.

FIG. 5 is a schematic for driving memory display 37 in conventional camera 10. Flash capacitor 40 is used as a source of high voltage for pulsing memory display 37. Flash capacitor 40 stores power at well over 100 volts. Voltage regulator 90 converts a voltage from flash capacitor 40 to either a high or low voltage. In one case, voltage regulator 90 is resistor network that changes 330 volts on flash capacitor 40 to either 100 or 40 volts in response to high-low voltage select line 92 which is used by camera controller 30 to select a pulse voltage for memory display 37. Using the pre-existing high voltage on flash capacitor 40 eliminates the need for an additional high voltage generating system in conventional camera 10.

Camera controller 30 uses high-low voltage select line 92 to changes the voltage applied to memory display 37. Memory display 37 contains chiral nematic liquid crystal memory material 60 to hold either a reflective or transmissive condition for each segment of memory display 37.

FIG. 8A show the voltage forms applied by camera controller 30 to a segment of memory display 37 to write the segment into the reflective mode. Camera controller 30 sets voltage regulator 90 to a low voltage and pulses all segment switches 94 to clear all the segments with low voltage pulse  $P_L$ . Voltage regulator 90 is then set to a high voltage, and selected ones of segment drivers 94 are pulsed with a high voltage pulse  $P_H$  to convert those segments to the reflective mode.

FIG. 8B is a waveform across a segment that has been kept in the transmissive mode. Because  $P_H$  was not applied across that segment, the segment remains in a transmissive, dark condition from  $P_L$ . After the write pulses  $P_L$  and  $P_H$  are applied, memory display 37 will continue to display status information indefinitely without the use of additional power. Conventional camera 10 can be de-energized and memory display 37 will continue to display information such as the number of images left on film 22 or dates of exposure of frames on film 22 or other information pertinent to images on film 22. If film camera 10 was a hybrid camera with the capacity to capture electronic images as well as film images, a representation of the at least one image electronically captured could also be displayed on memory display 37 on film cassette 20.

FIG. 6A is a partial top view and FIG. 6B is a magnified view of display 35 in electronic capture camera 12. A substrate 61 supports a plurality of transparent row traces 100. A second set of transparent traces form column traces 105. These traces provide for electrical conduction to the display 35 and coupled selectively the high voltage in the flash unit and the low voltage to the display as discussed above. The memory material 60 is disposed between row traces 100 and column traces 105. Memory material 60 is a chiral nematic material that can be written into either a reflective or transmissive condition. Chiral nematic materials can be tuned to red green and blue wavelengths of reflection and three color planes can be stacked to create a full color display.

FIG. 7 is a schematic for driving display 54 in an electronic camera 12. Flash capacitor 40 is used as a source of high voltage for pulses to display 35. Flash capacitor 40 stores power at well over 100 volts. Voltage regulator 90

converts a voltage from flash capacitor 40 to either a high or low voltage. In one case, voltage regulator 90 is resistor network that changes 330 volts on flash capacitor 40 to either 100 or 40 volts in response to high-low voltage select line 92. Using the pre-existing high voltage on flash capacitor 40 eliminates the need for a high voltage generating system in electronic camera 12.

FIG. 8C is the drive signals applied across a single color plane of display 35 when used as to display a color, gray scale image stored in removable memory card 52 using the electrical drive of FIG. 7. Camera controller 30 selects a first column using column selector 120. Camera controller 30 sets voltage regulator 90 to a low voltage, and row drivers 115 write a first clearing pulse  $P_L$  to all pixels in the row. Camera controller 30 then sets voltage regulator 90 to a high voltage. Row drivers 115 are energized for various gray level times  $t_g$ . A chiral nematic material changes condition from the transmissive to the reflective condition progressively over time. By selecting an appropriate drive time  $t_g$  for each pixel 110, a column of pixels can be written to various degrees of reflection, creating a column of pixels actuated to various gray levels. Camera controller 30 uses to column selector 120 to select the next column of pixels for writing. The process is repeated for each column, and each color plane to create a full-color, gray scale image on display 35. Other driving schemes can be used such as one proposed by Hashimoto et al, "Reflective Color Display Using Cholesteric Liquid Crystals", SID 98 Digest, Article 31.1, 1998, pp. 897-900.

FIG. 9 is a view of a removable memory card 52 with a memory display 54. Memory card connector 125 mates with the electronic camera 12 to transfer image data for storage as is traditional in electronic cameras. Memory display connector 130 is provided so that the high voltages necessary to update memory display 54 may be applied. One skilled in the art will understand that both the memory card and the memory display can be actuated using a single connector.

Bar indicator 135 is a display that indicates the remaining storage space on the memory card. Time or date display 140 is an indication of the date of capture of at least one of the images stored on the card. Image display 145 is a

representation of at least one image file stored on the card. Image display 145 can be a small image that depicts many image files stored on the card, or could be a portion of one image.

Battery status indicator 150 shows an indication of camera battery condition. Electronic camera 12 can access the memory display 54 on removable memory card 52 to indicate this and other conditions of the electronic camera 12. Resolution indicator 155 shows the result of a user selection for resolution and resulting file size. Memory display 54 can be used to this and other selections made by the user.

FIG. 10 shows a view of a film camera 10 where changeable display 37 is visible through window 160. Note that display 37 is disposed relative to the removable image bearing medium 20 so that display 37 is removable from camera 10 with removable image bearing medium 20. For clarity of illustration the display 35 has been omitted.

FIG. 11 shows a view of electronic camera 12 where changeable display 54 is visible through window 160. Note that display 54 is disposed relative to the removable image bearing medium 52 so that display 54 is removable from camera 12 with removable image bearing medium 52. For clarity of illustration the display 35 has been omitted.

When removable memory card 52 is inserted into electronic camera 12, communication is initiated by which an indicia of the capabilities of display 54 are communicated to camera 12. In this way, electronic camera 12 can format signals sent to the display as desired for effective communication to the user. Alternately, if the display is pre-formatted such that certain icons are provided, the communication between electronic camera 12 and removable memory card 52 can establish this fact.

Upon power-down of camera 12 or upon indication of removal of removable memory card 52, electronic camera 12 can change display 54 to indicate only the condition of removable memory card 52 thereby removing all camera status indication prior to removal of the image bearing medium 52. There is little value in displaying the condition of electronic camera 12 if removable memory

card 52 is separated from electronic camera 12. Mechanical interlocks or warning lights or sounds can be employed to prevent the user from removing card 52 from electronic camera 12 before the pre-removal writing process is complete.

Display 54 can be integrally secured to the removable memory card

- 5 52. However, it can also be detachable and thus a user can detach it from the removable memory card 52. This feature permits the display 54 to be reusable on different memory cards and can provide significant cost advantages. FIG. 12 shows a clip 200 formed on the removable memory card 52 which permits the display 54 to be attached and removed from the removable memory card 52. An
- 10 alignment feature 210 facilitates proper location of display 54 on removable memory card 52. Also, if the separable display 54 is not constructed of a memory material such as chiral doped nematic liquid crystals, it can be necessary to include battery 220 which is electrically connected to display 54.

- The invention has been described in detail with particular reference
- 15 to certain preferred embodiments thereof, but it will be understood that variations and modifications can be effected within the spirit and scope of the invention.

## PARTS LIST

10	conventional camera
12	electronic camera
20	film cassette
22	film
24	take-up spool
26	optic
30	camera controller
35	display
37	memory display
40	flash capacitor
42	flash tube
50	sensor
52	removable memory card
54	memory display
60	memory material
61	substrate
62	transparent top conductor
64	bottom conductor
70	reflected light
72	absorbed light
80	reflecting segment
82	transmitting segment
90	voltage regulator
92	high-low voltage select line
94	segment switch
100	row traces
105	column traces

**Parts List cont'd**

110	pixel
115	row drivers
120	column selector
125	memory card connector
130	memory display connector
135	bar indicator
140	time or date indicator
145	image display area
150	battery status indicator
155	resolution indicator
160	window
200	clip
210	feature
220	battery

**WHAT IS CLAIMED IS:**

1. A camera having a removable image bearing medium for camera captured images that includes film or a digital memory comprising:
  - (a) a display disposed relative to the removable image bearing medium so that the display is removable from the camera with the removable image bearing medium, such display displaying images for information related to captured images;
  - (b) means for actuating the display to provide images of one or more captured images or information related to such one or more captured images; and
  - (c) the display being positioned for viewing by a user.
2. The camera of claim 1 wherein the display includes chiral nematic liquid crystal material.
3. The camera of claim 1 wherein the image bearing medium is film and a film cartridge mountable in the camera and includes such film.
4. The camera of claim 1 wherein the image bearing medium includes a removable memory card having the digital memory.
5. The camera of claim 1 wherein the image captured related information provides an indication of remaining capacity of images to be taken by the camera.
6. The camera of claim 1 wherein the image captured related information provides a time or date.
7. The camera of claim 1 wherein the image bearing medium displays at least one indication of the status of the camera.
8. The camera of claim 1 wherein the image bearing medium communicates an indicia of the capabilities of the display to the camera.
9. The camera of claim 7 wherein the camera actuates the display on the image bearing medium to remove camera status indications prior to removal of the image bearing medium from the camera.
10. A camera having a removable image bearing medium for camera captured images that includes film or a digital memory comprising:

(a) a display disposed relative to the removable image bearing medium so that the display is removable from the camera with the removable image bearing medium, such display displaying images or information related to captured images, the display including material which is effective in a first condition in response to a selected applied high voltage for changing the condition of the material to display one or more images or information related to the captured images wherein such material continues to display the one or more images or information after the removal of the high voltage;

(b) means for actuating the display by selectively applying high voltages to the material to provide one or more images of one or more captured images or information related to such one or more captured images; and

(c) the display being positioned for viewing by a user either when the display is in the camera.

11. The camera of claim 10 wherein the display includes chiral nematic liquid crystal material.

12. The camera of claim 10 wherein the image bearing medium is film and a film cartridge mountable in the camera and includes such film.

13. The camera of claim 10 wherein the image bearing medium includes a removable memory card having the digital memory.

14. The camera of claim 10 wherein the image captured related information provides an indication of remaining capacity of images to be taken by the camera.

15. The camera of claim 10 wherein the image captured related information provides a time or date.

16. The camera of claim 10 wherein the image bearing medium displays at least one indication of the status of the camera.

17. The camera of claim 10 wherein the actuating means applies pulses of high voltage to the display to cause it to be effective in the first condition and to remain in such condition until pulses of lower voltage are applied.

18. The camera of claim 10 further including a display type indicia disposed relative to the image bearing medium and wherein the acutating means includes means for reading such indicia to indicate that the display is acceptable for presenting data by the camera.

19. The camera of claim 10 wherein the image bearing medium communicates an indicia of the capabilities of the display to the camera.

20. The camera of claim 10 wherein the camera actuates the display on the image bearing medium to remove camera status indications prior to removal of the image bearing medium.

21. A camera having a removable image bearing medium for camera captured images that includes film or a digital memory comprising:

(a) a display removably connected to the removable image bearing medium so that the display is removable from the camera with the removable image bearing medium and the display is removable from the image bearing medium , such display displaying images, whether in the camera or on the image bearing medium, or information related to captured images;

(b) means for actuating the display to provide images of one or more captured images or information related to such one or more captured images; and

(c) the display being positioned for viewing by a user.

22. The camera of claim 21 including a battery provided on the removable image bearing medium which provides power for the display when the image bearing medium is removed from the camera.

23. The camera of claim 21 wherein the image bearing medium is film mounted in a film cartridge or a memory card.

### ABSTRACT OF THE DISCLOSURE

A camera having a removable image bearing medium for camera captured images that includes film or a digital memory includes a display disposed relative to the removable image bearing medium so that the display is removable  
5 from the camera with the removable image bearing medium, such display displaying images for information related to captured images. The display is actuated to provide images of one or more captured images or information related to such one or more captured images; and the display being positioned for viewing by a user.

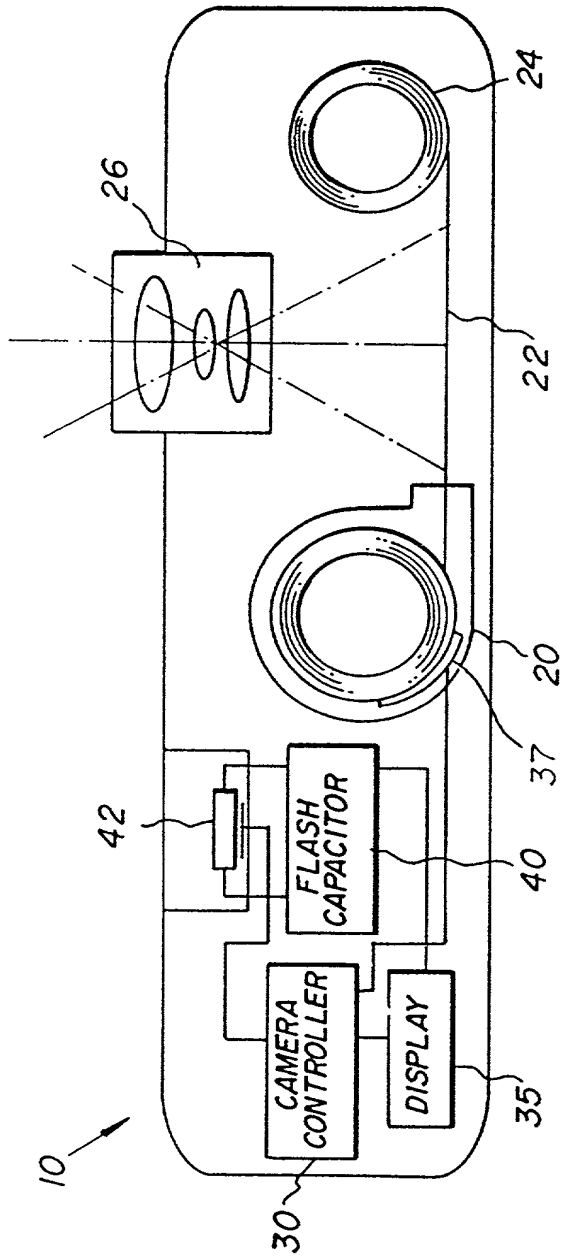


FIG. 1

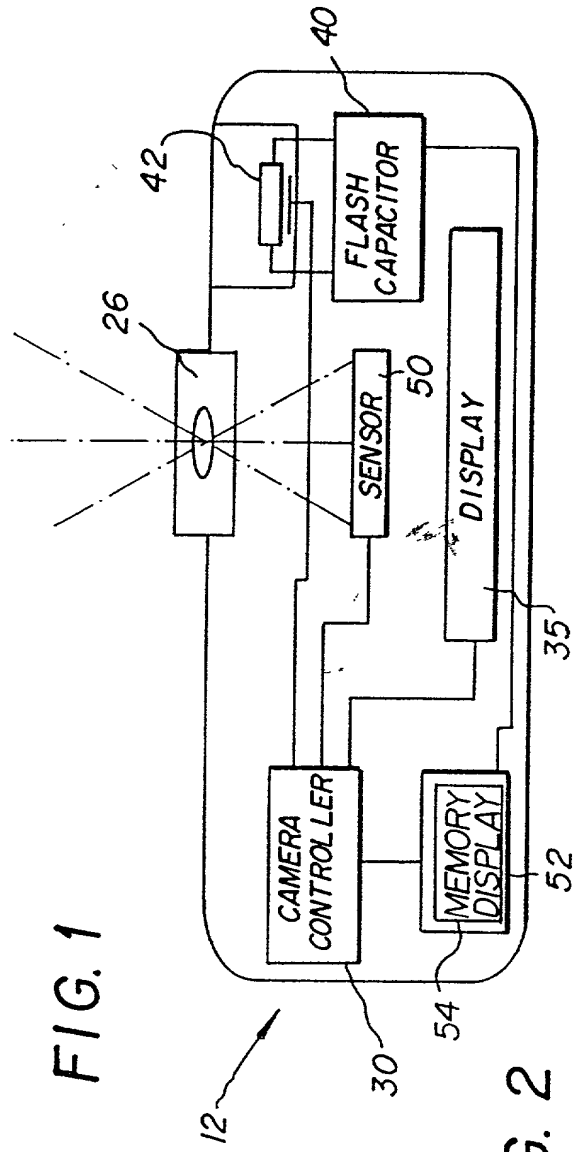


FIG. 2

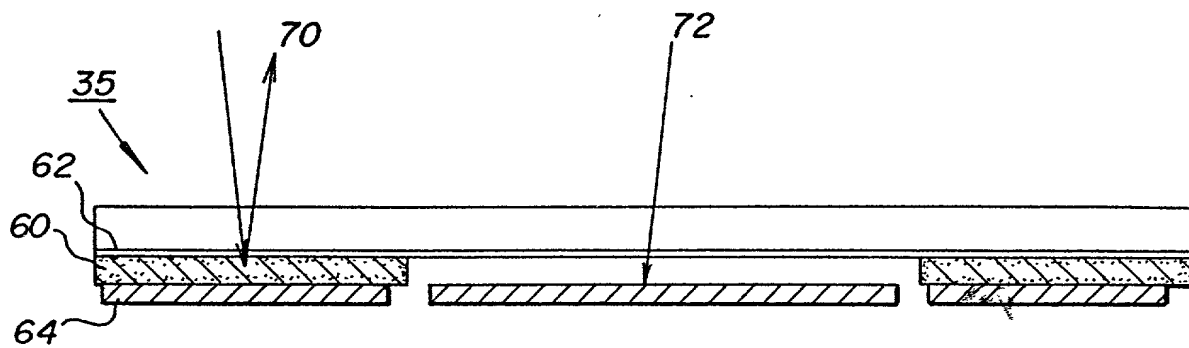


FIG. 3

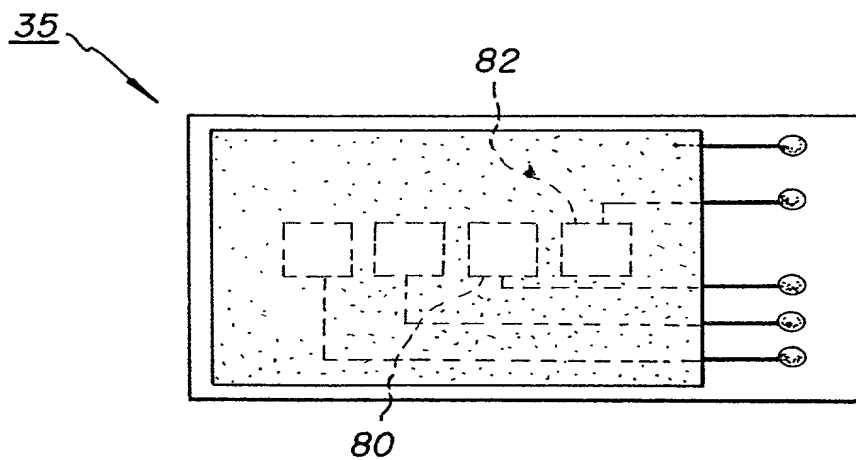


FIG. 4

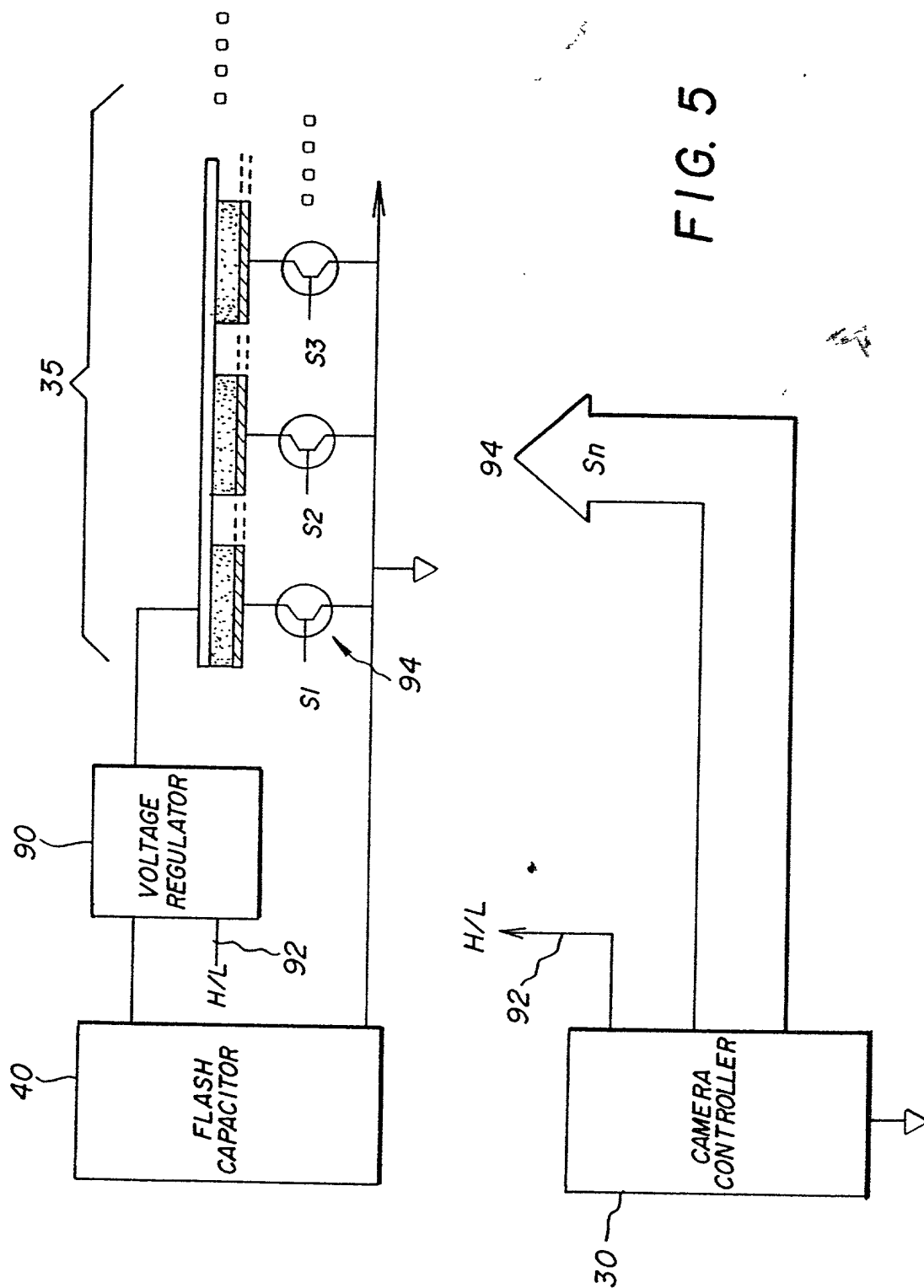


FIG. 5

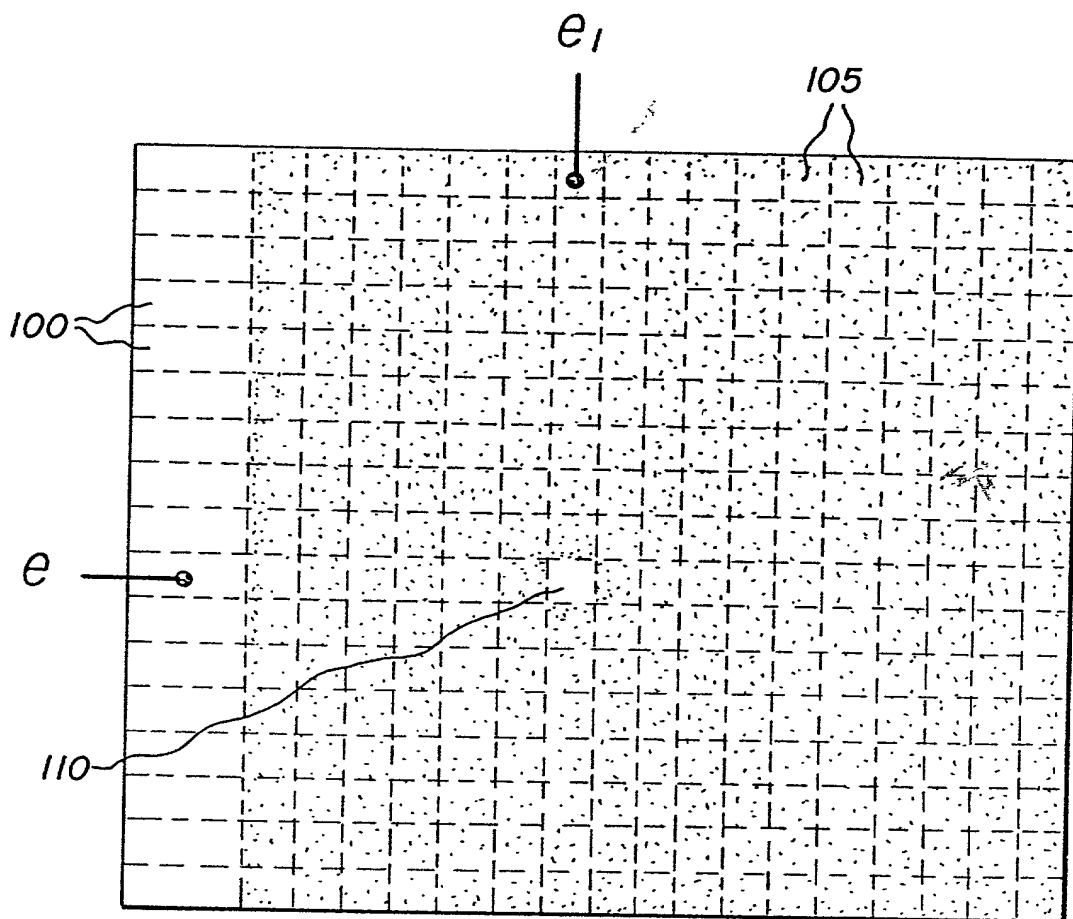


FIG. 6A

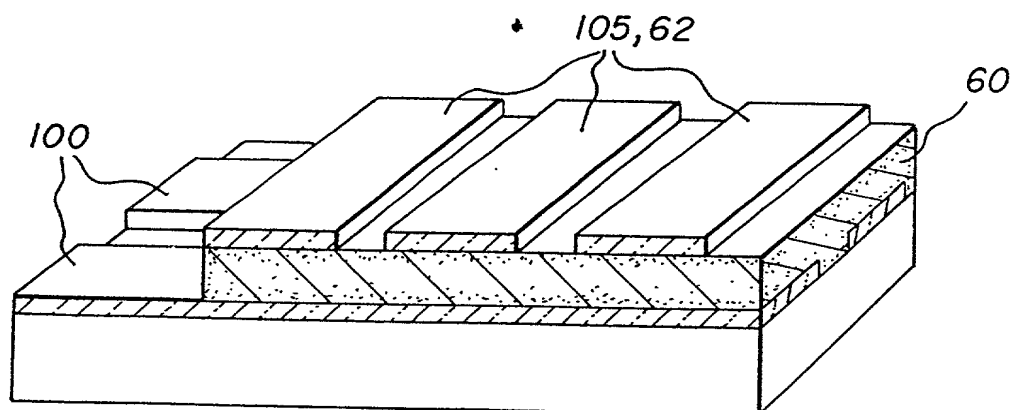


FIG. 6B

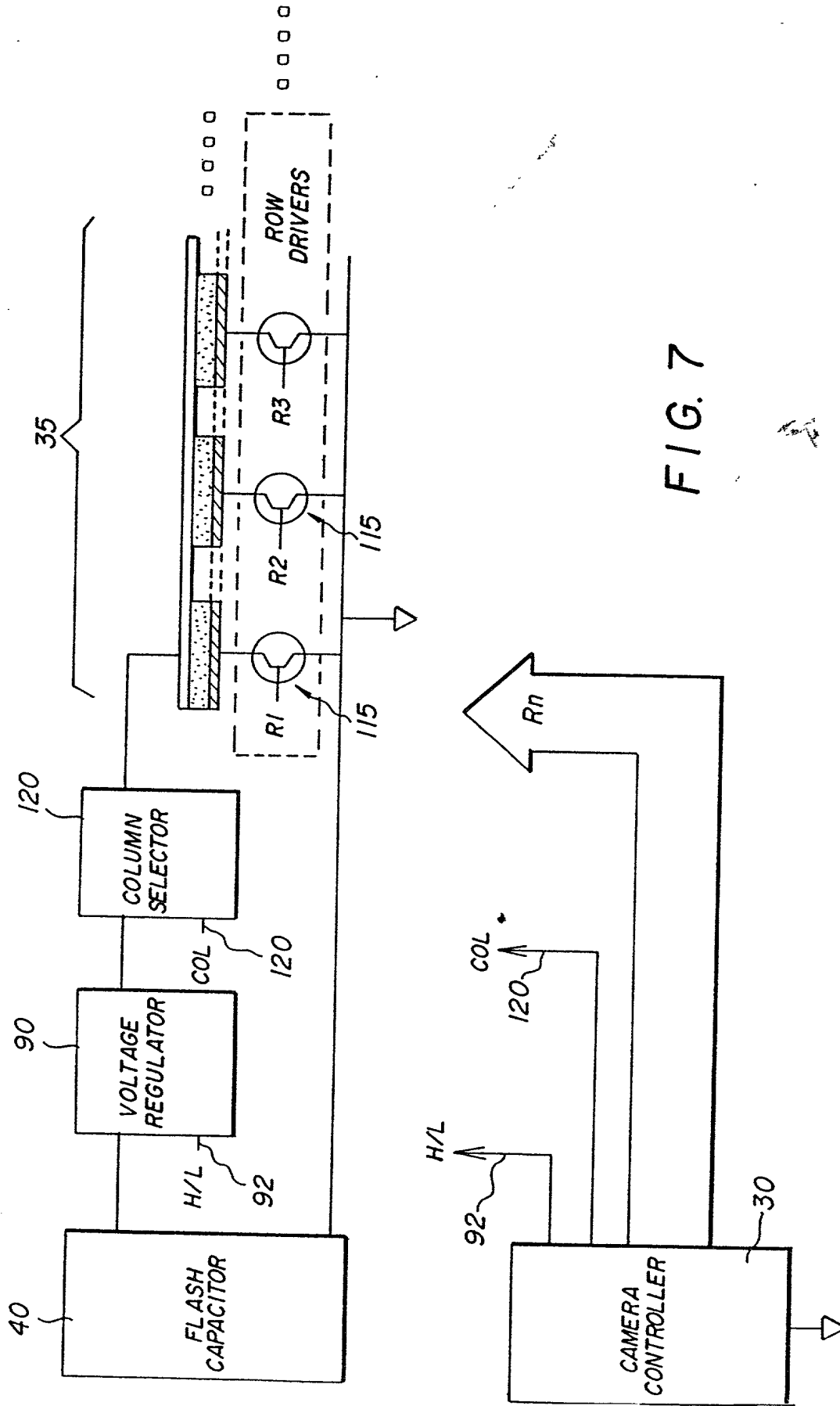


FIG. 7

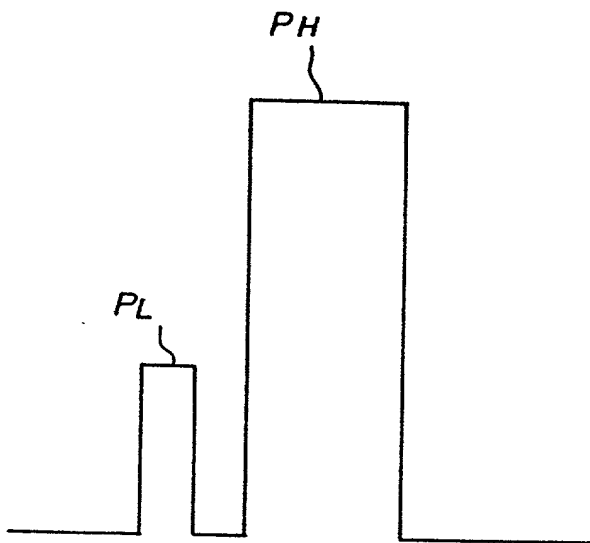


FIG. 8A

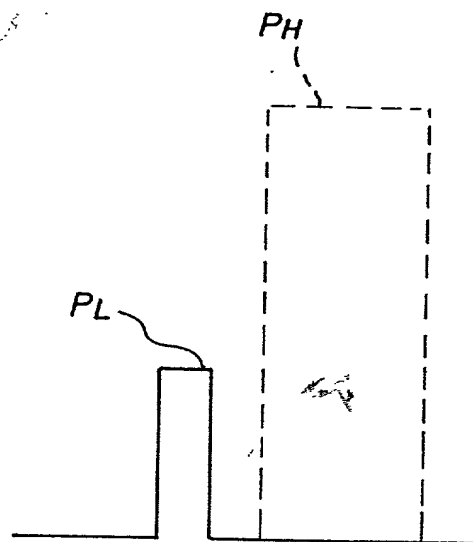


FIG. 8B

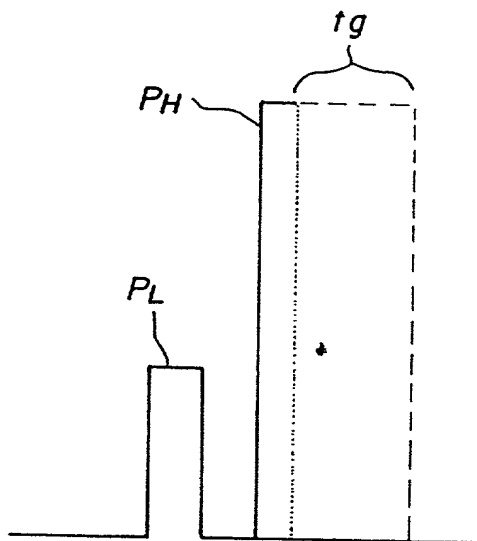
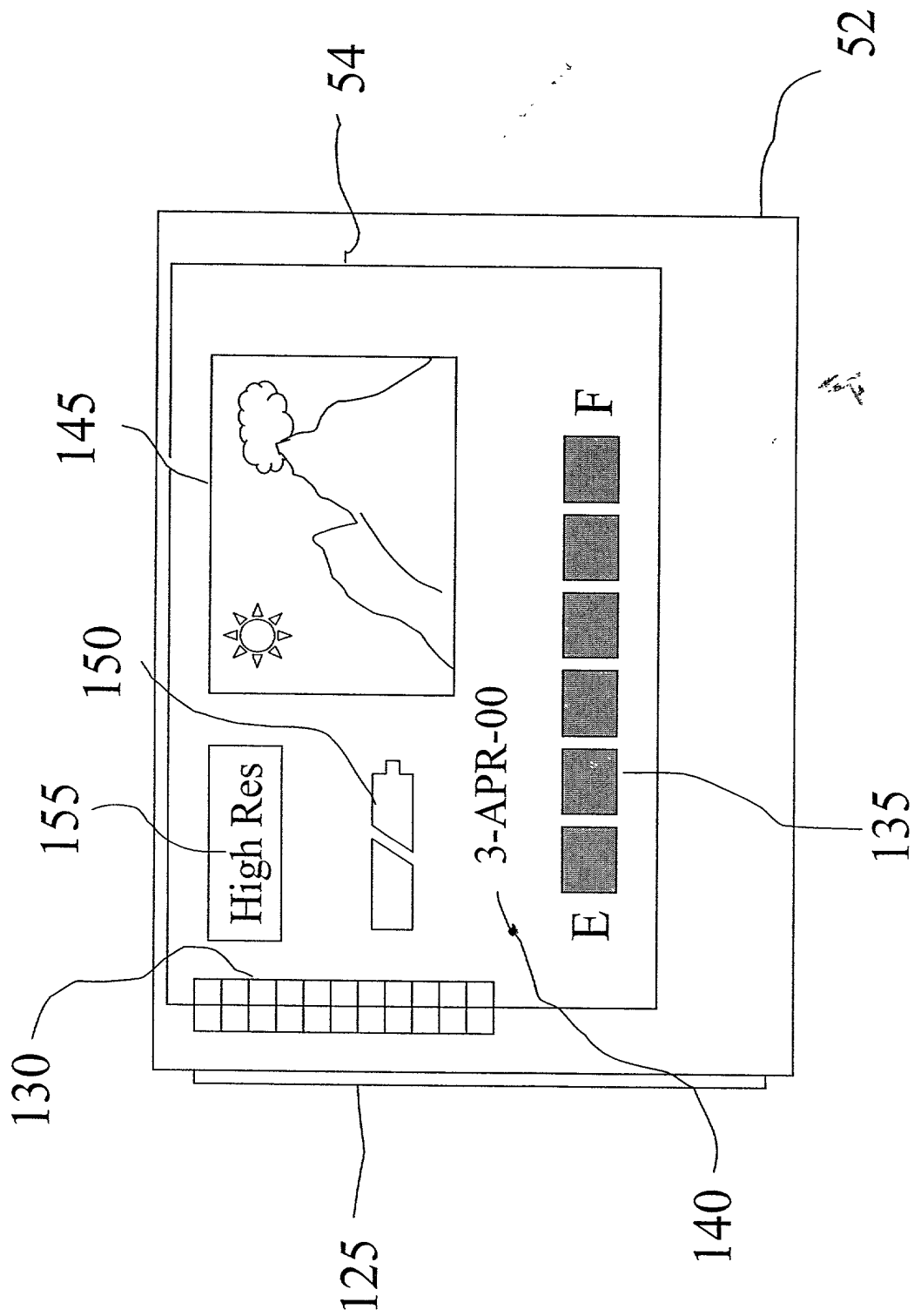


FIG. 8C

FIG. 9



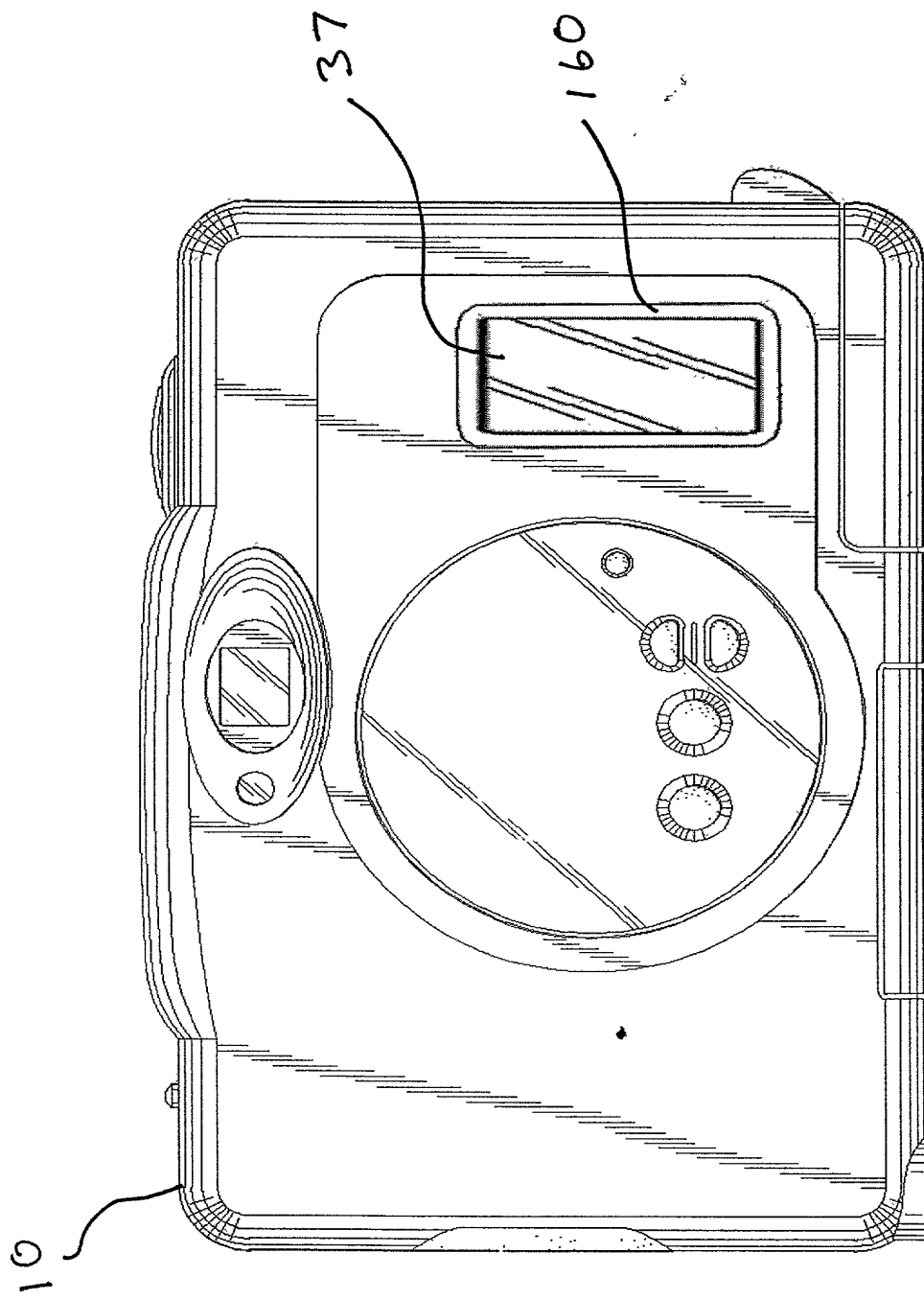


FIG 10

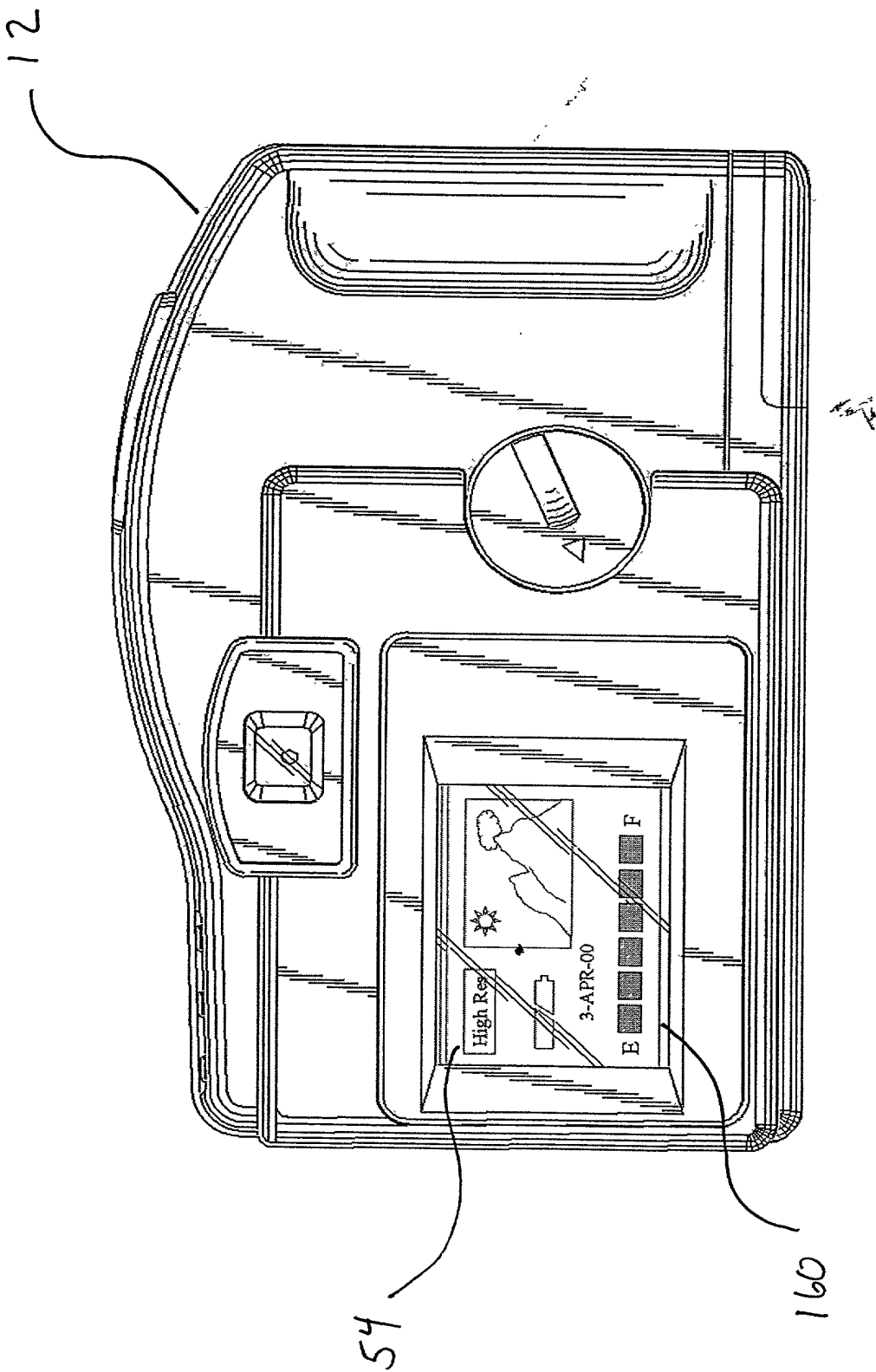
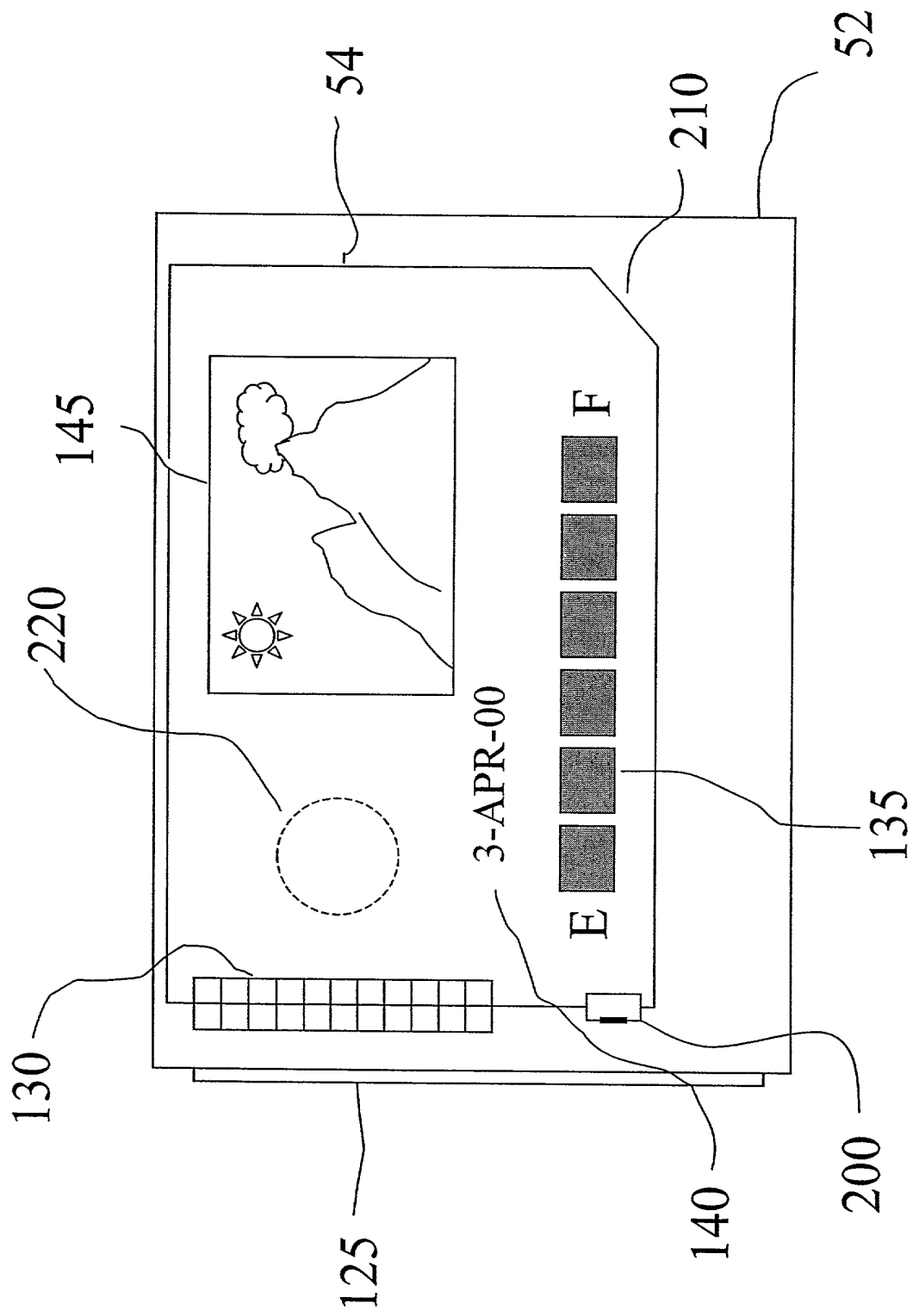


FIG 11

FIG. 12



## Combined Declaration For Patent Application and Power of Attorney

ATTORNEY DOCKET  
81687RLO

As below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**CAMERA HAVING A REMOVABLE DISPLAY PROVIDED ON AN IMAGE BEARING MEDIUM**

The specification of which (check only one item below):

☒ is attached hereto.☐ was filed as United States Application Serial No. on and

was amended on (if applicable).

☐ was filed as PCT international application Number on and was amended under PCT Article 19 on (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent &amp; Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign applications(s) for patent or inventor's certificate or any PCT international application(s) designating a least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

**PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:**

COUNTRY (if PCT, indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day month year)	PRIORITY CLAIMED UNDER 35 USC §119			
			<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
			<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
			<input type="checkbox"/>	YES	<input type="checkbox"/>	NO

I hereby claim the benefit under Title 35, United States Code, 119 §(e) of any United States provisional application(s) listed below:

**PRIOR PROVISIONAL APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. §119 (e):**

PROVISIONAL APPLICATION NUMBER	FILING DATE

I hereby claim the benefit under Title 35, United States Code, §120 of any prior United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior applications(s) in the manner provided by the first paragraph of Title 35, §112, I acknowledge the duty to disclose to the U.S. Patent &amp; Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations §1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

**PRIOR US APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S FOR BENEFIT UNDER 35USC§120:**

U. S. APPLICATIONS			STATUS (Check one)		
U.S. APPLICATION NUMBER	U. S. FILING DATE		PATENTED	PENDING	ABANDONED
PCT APPLICATIONS DESIGNATING THE U.S.					
PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)			

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the attorney(s) and/or agent(s) associated with Eastman Kodak Company Customer No. 01333 to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

**Send Correspondence to:**

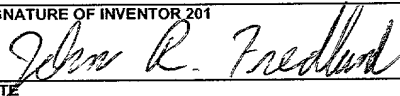
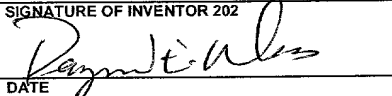
Patent Legal Staff  
Eastman Kodak Company  
343 State Street  
Rochester, NY 14650-2201

**Direct Telephone Calls to:**  
(name and telephone number)

Raymond L. Owens  
(716) 477-4653  
FAX: (716) 477-4646

2 0 1	FULL NAME OF INVENTOR	FAMILY NAME Fredlund	FIRST GIVEN NAME John	SECOND GIVEN NAME R.
	RESIDENCE & CITIZENSHIP	CITY Rochester	STATE OR FOREIGN COUNTRY New York 14626 USA	COUNTRY OF CITIZENSHIP USA
	BUSINESS ADDRESS	BUSINESS ADDRESS Eastman Kodak Company	CITY 343 State Street, Rochester	STATE & ZIP CODE (COUNTRY) New York 14650 USA
2 0 2	FULL NAME OF INVENTOR	FAMILY NAME Wess	FIRST GIVEN NAME Raymond	SECOND GIVEN NAME E.
	RESIDENCE & CITIZENSHIP	CITY Holley	STATE OR FOREIGN COUNTRY New York 14470 USA	COUNTRY OF CITIZENSHIP USA
	BUSINESS ADDRESS	BUSINESS ADDRESS Eastman Kodak Company	CITY 343 State Street, Rochester	STATE & ZIP CODE (COUNTRY) New York 14650 USA
2 0 3	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	BUSINESS ADDRESS	BUSINESS ADDRESS	CITY	STATE & ZIP CODE (COUNTRY)
2 0 4	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	BUSINESS ADDRESS	BUSINESS ADDRESS	CITY	STATE & ZIP CODE (COUNTRY)
2 0 5	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	BUSINESS ADDRESS	BUSINESS ADDRESS	CITY	STATE & ZIP CODE (COUNTRY)
2 0 6	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	BUSINESS ADDRESS	BUSINESS ADDRESS	CITY	STATE & ZIP CODE (COUNTRY)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201 	SIGNATURE OF INVENTOR 202 	SIGNATURE OF INVENTOR 203
DATE 22-SEP-00	DATE 9-22-00	DATE
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE	DATE	DATE